

PRE-ELEC® PP 1384

Compounded Polypropylene

Premix Oy

Message:

PRE-ELEC® PP 1384 is a conductive thermoplastic compound based on polypropylene. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity, PRE-ELEC® PP 1384 has excellent mechanical properties and is easy to extrude.

PRE-ELEC® PP 1384 is recommended to be used in polypropylene tape co-extrusion for FIBC (type C) applications.

General Information			
Additive	Carbon black		
Features	Conductivity		
	Workability, good		
Forms	Particles		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
--	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	1.0	g/10 min	ISO 1133
230°C/5.0 kg	16	g/10 min	ISO 1133
Molding Shrinkage			
Flow	1.2 - 1.7	%	ASTM D955
Flow direction	1.2 - 1.7	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw A	98		ISO 868
Shaw D	73		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Flow	30.0	MPa	ASTM D638
-- ¹	30.0	MPa	ISO 527-2
Tensile Strain ² (Break)	4.0	%	ISO 527-2
Flexural Modulus			
4.00 mm	2480	MPa	ASTM D790
4.00 mm	2500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			
-20°C	2.1	kJ/m ²	ASTM D256
-20°C	2.0	kJ/m ²	ISO 179

23°C	4.0	kJ/m ²	ISO 179
23°C	4.2	kJ/m ²	ASTM D256
Charpy Unnotched Impact Strength ⁴			
-20°C	4.2	kJ/m ²	ASTM D256
-20°C	5.0	kJ/m ²	ISO 179
23°C	14	kJ/m ²	ISO 179
23°C	13	kJ/m ²	ASTM D256
Notched Izod Impact			ASTM D256
-20°C, 4.00 mm	1.26	kJ/m ²	ASTM D256
23°C, 4.00 mm	1.47	kJ/m ²	ASTM D256
Notched Izod Impact ⁵			ISO 180
-20°C	1.2	kJ/m ²	ISO 180
23°C	1.5	kJ/m ²	ISO 180
Unnotched Izod Impact			ASTM D256
-20°C, 4.00 mm	8.41	kJ/m ²	ASTM D256
23°C, 4.00 mm	16.8	kJ/m ²	ASTM D256
Unnotched Izod Impact Strength ⁶			ISO 180
-20°C	9.0	kJ/m ²	ISO 180
23°C	16	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	109	°C	ASTM D648B, ISO 75-2/Bf
1.8 MPa, not annealed	62.8	°C	ASTM D648A
1.8 MPa, not annealed	63.0	°C	ISO 75-2/Af
Vicat Softening Temperature	154	°C	ISO 306/A50, ASTM D1525 ⁷
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+2	ohms	IEC 61340-2-3
Volume Resistivity	< 10	ohms · cm	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0	hr	
Cylinder Zone 1 Temp.	210	°C	
Cylinder Zone 2 Temp.	220	°C	
Cylinder Zone 3 Temp.	220	°C	
Cylinder Zone 4 Temp.	230	°C	
Cylinder Zone 5 Temp.	230	°C	
Extrusion instructions			
Cylinder Zone 6: 230°C			
NOTE			
1.	Flow		
2.	Flow		

3.	4 mm thickness
4.	4 mm thickness
5.	4 mm thickness
6.	4 mm thickness
7.	速率 A (50°C/h), 载荷2 (50N)

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